

### Courses for Aug-Nov 2015

**Note:** Students may take courses of other disciplines as electives, in addition to the courses listed as electives for their disciplines, subject to pre-requisites/consent of teacher, the max. number of students allowed in that course and time table slotting. They should also get consent of their FA if interested.

Sr. No.	Course No.	Course Title	Credits L-T-P-C	Instr.	1 <sup>st</sup> Sem	3 <sup>rd</sup> Sem CS	3 <sup>rd</sup> Sem EE	3 <sup>rd</sup> Sem ME	5 <sup>th</sup> Sem CS	5 <sup>th</sup> Sem EE	5 <sup>th</sup> Sem ME	7 <sup>th</sup> Sem CS	7 <sup>th</sup> Sem EE	7 <sup>th</sup> Sem ME
1.	IC 101P	Reverse Engineering	0-0-3-2	AB, PR	C									
2.	IC 110	Engineering Mathematics	3-0-0-3	PG	C									
3.	IC 140	Graphics for Design	2-0-3-4	RS Lab: DS, DPS, RS, RV	C									
4.	IC 150	Computation for Engineers	3-0-0-3	TAG	C									
5.	IC 150P	Computation for Engineers Lab	0-0-3-2	VJ, ADixit, NK, KS	C									
6.	IC 160	Electrical System Around Us	3-0-0-3	RO	C									
7.	IC 160P	Electrical System Around Us Lab	0-0-3-2	SD,KG, BJ	C									
8.	HS 102	Art & Architecture	P/F	Tripthi	E									
9.	HS 104	Music	P/F	RD	E									
10.	HS 103	Dance & Drama	P/F	RD	E									
11.	HS 105	Basic Communication Skills	3-0-0-3	BS	E	E	E	E	E	E	E			
12.	HS 106	English 1	3-0-0-3	Aruna	E									
13.	HS 151	Introduction to English Literature	3-0-0-3	Sharmila	E							E	E	E
14.	HS 254	Introduction to European Philosophy	3-0-0-3	PT	E									
15.	HS 263	Popular Culture in Modern India	3-0-0-3	Devika	E	E	E	E						
16.	HS 342	German I	3-0-0-3	Sara	E							E	E	E
17.	IC 130	Applied Chemistry for Engineers	3-0-0-3	PCR		C	C	C						
18.	IC 130P	Chemistry Practicum	0-0-3-2	VKN, PFS, SG		C	C	C						
19.	IC 136	Understanding Biotechnology and Its Applications	3-0-0-3	TPS		C	C	C						
20.	IC 221	Foundations of Electrodynamics	2.5-0.5-0-3	CSY		C	C	C						
21.	IC 222P	Physics Practicum	0-0-3-2	SKP, HV		C	C	C						
22.	IC 240	Mechanics of Rigid Bodies	1.5-1.5-0-3	UKV/KS		C	C	C						





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73.	ME 505	Applied Finite Element Method	3-0-0-3	OPS	MS/PhD								E	E
74.	ME 351	Management of Manufacturing and Logistic Systems (NKN)	3-0-0-3	AS LC: Jana										E
75.	ME 502	Nano Manufacturing	3-0-0-3	BV	MS/PhD/ MTech					E	E		E	E
76.	ME 356	Principles of Energy Conversion	3-0-0-3	DVP							E			E
77.	ME 503	Micro/Nano Scale Heat Transfer	3-0-0-3	Harish	MS/PhD									E
78.	ME 606	Advanced Solid Mechanics	3-0-0-3	Jana	MS/PhD/ MTech (E)									E
79.	ME 602	Mechanical Vibration	3-0-0-3	AG/SCJ	MS/PhD									E
80.	ME 504	Numerical Methods for Engineering Computation	3-0-0-3	KS	MS/PhD		E	E		E	E		E	E
81.	MA 608	Computational Fluid Dynamics	3-0-0-3	Pradeep	MS/PhD									E
82.	HS 349	Indo-German Encounters	3-0-0-3	PT								E	E	E
83.	HS 304	Organizational Management	3-0-0-3	BP								E	E	E
84.	HS 343	Introduction to Political Philosophy	3-0-0-3	BS								E	E	E
85.	HS 616	Managerial Thinking and Decision Making	3-0-0-3	VD								E	E	E
86.	HS 592	Special topics in Entrepreneurship	2-0-0-2	BP								E	E	E
87.	MA 651	Optimization Techniques	3-0-0-3	MR					E	E	E	E	E	E
88.	MA 465	Ordinary Differential Equations	3-0-0-3	SA					E	E	E	E	E	E
89.	MA 551	Numerical Methods	3-0-0-3	MM	MS/PhD				E	E	E	E	E	E
90.	MA 565	Numerical Methods in Finance	3-0-0-3	R Ray	MS/PhD				E	E	E	E	E	E
91.	MA 605	Statistical Data Analysis	3-0-0-3	Sarita	MS/PhD				E	E	E	E	E	E
92.	BY 505	Nano-Biotechnology	3-0-0-3	AJ	MTech/M Sc/PhD				E	E	E	E	E	E
93.	BY 502	Biophysics and Protein Engineering	3-0-0-3	Rajanish	MTech/M Sc/PhD				E	E	E	E	E	E
94.	BY 503	Cellular Fuel and Cellular Communication	3-0-0-3	PM	MTech/M Sc/PhD				E	E	E	E	E	E

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95.	BY 504	Metabolic Systems Biology	3-0-0-3	SKM	MTech/MSc/PhD				E	E	E	E	E	E
96.	BY 606	Bioinformatics Applications for Systems Analysis	2-0-2-3	TPS	MTech/MSc/PhD				E	E	E	E	E	E
97.	PH 411	Mathematical Physics	4-0-0-4	PP	MSc				E	E	E	E	E	E
98.	PH 412	Classical Mechanics	4-0-0-4	PJ	MSc				E	E	E	E	E	E
99.	PH 413	Quantum Mechanics 1	4-0-0-4	PK	MSc				E	E	E	E	E	E
100.	PH 414	Electronics	4-0-0-4	KM	MSc									
101.	PH 415	Electronics Laboratory	0-0-5-3	Ajay	MSc									
102.	PH 507	X-ray as Probe to Study The Material Properties	3-0-0-3	BR	MSc/PhD				E	E	E	E	E	E
103.	CY 501	Organic Reaction Mechanisms	3-1-0-4	Rik	MSc - 1(C)									
104.	CY 506	Chemistry of Transition Elements	3-1-0-4	PCP	MSc - 1(C)									
105.	CY 512	Advanced Quantum Chemistry	3-0-0-3	CKN	MSc - 1(C)									
106.	CY 521	Mathematics for Chemists	2-1-0-3	AC	MSc - 1(C)									
107.	DP 501P	Practicum - 1	0-0-3-2	VKN	MSc - 1(C)									
108.	CY 511P	Physical Chemistry Lab	0-0-8-4	JKR	MSc - 1(C)									
109.	CY 506P	Inorganic Chemistry Lab	0-0-8-4	SG	MSc - 2(C)									
110.	CY 551	Computational Chemistry	3-0-0-3	AC	MSc - 2(C)									
111.	CY 552	Hydrogen Generation and Storage	3-0-0-3	Aditi	MSc - 2(E) M.Tech				E	E	E			
112.	CY 553	Organic and Inorganic Spectroscopy	3-0-0-3	AD	MSc - 2(E)									
113.	DP 503P	Basic Mechanical and Electronics Workshop		PFS	MSc - 2(C)									
114.	DP 504P	Mini Project		CKN	MSc - 2(C)									
115.	CE 501	Geo-Informatics	3-0-0-3	DPS	MS/PhD							E	E	E
116.	EM 601	Materials for Energy Applications	3-0-0-3	SP	MS/PhD/ MTech (C)						E			E
117.	EM 602	Experiments in Materials	2-0-3-4	RV	MS/PhD/ MTech (C)					E	E		E	E

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118.	EM 603	Design Practicum	0-0-4-2	RV	MS/PhD/MTech (C)									
119.	EM 658	Deformation Behavior of Energy Materials	3-0-0-3	VSC	MS/PhD/MTech (C)									E
120.	ME 604	Experimental Methods in Thermal Engineering	3-0-0-3	Atul	MS/PhD									
121.	HS 591	Special Topics on Technical Writing	1-0-0-1	Aruna	MS/PhD									
122.	HS 620	Popular Narratives	3-0-0-3	Suman	MS/PhD									
123.	HS 602	Indian Writing In English	3-0-0-3	Suman	MS/PhD									
124.	HS 671	Historian's Craft	3-0-0-3	RD	MS/PhD									

### Abbreviations

A D – Abhimanew Dhir  
 AB – Arnav Bhavsar  
 AC – Aniruddha Chakraborty  
 Aditi – Aditi Halder  
 ADixit - Abhishek Dixit  
 AG – Arpan Gupta  
 AJ - Amit Jaiswal  
 Ajay – Ajay Soni  
 AKS – Anil Kumar Sao  
 Aruna – Aruna Bommareddi  
 AN – Aditya Nigam  
 AP - Amit Prasad  
 AS – Amitava Sanyal  
 Atul-Atul Dhar  
 BDC – B. D. Chaudhary  
 BJ – Bhakti Joshi  
 BP – Bhavender Paul  
 BR – Bindu Radhamany  
 BS – B. Subramanian  
 BSR – Bharat Singh Rajpurohit  
 BV – B. Vishwanath  
 CKN – Chayan K Nandi  
 CSY – Chandra Shekhar Yadav

Devika - Devika Sethi  
 Dileep – Dileep A. D  
 DPS - Dericks Praise Shukla  
 DS - Deepak Swami  
 DVP - Dheeraj V. Patil  
 Harish - Harish  
 Hitesh – Hitesh Shrimali  
 HV – Hari Varma  
 Jana – Prasun Jana  
 JKR – Jaspreet Kaur Randhawa  
 KG – Kunal Ghosh  
 Kishan - P. Anil Kishan  
 KM – Kaustav Mukherjee  
 KS - Kaustav Sarkar  
 MM – Muslim Malik  
 MR – Maben Rabi  
 MT – Manoj Thakur  
 MVD – Manu V Devadevan  
 NS – Narayanaswami  
 NK – Nitu Kumari  
 OPS – Om Prakash Singh  
 PCP – Pradeep C Parameswaran  
 PCR – P C Ravikumar

PFS – Prem Felix Siril  
 PG – Pratibha Garg  
 PJ – Prasanth Jose  
 PK - Pradeep Kumar  
 PM - Prosenjit Mondal  
 Powar - S Powar  
 PP – Pradyumna Pathak  
 PR – Padmanabhan Rajan  
 Pradeep – Pradeep Kumar  
 PS - Puran Singh  
 PT - Pramod Talgeri  
 Rajanish - Rajanish Giri  
 RD - Rajeshwari Dutt  
 RMR – Renu M Rameshan  
 RG - Rajesh Ghosh  
 Rik – Rik Rani Ghosh  
 RK – Rajeev Kumar  
 RK - Rajeev Kumar  
 RO – Ramesh Oruganti  
 R Ray – Rajendra Ray  
 RS - Rajneesh Sharma  
 RV – Rahul Vaish  
 S P – Sudhir Pandey

SA – Syed Abbas  
Samar – Samar Agnihotri  
Sharmila – Sharmila Sreekumar  
Sara - Sara Ladas  
Sarita – Sarita Azad  
SCJ - Satish Chandra Jain  
SD – Subashish Dutta  
SG – Subrata Ghosh  
Shail – Shail Shankar  
SK – Sriram Kailasam

SKM - Shyam K Masakapalli  
SKP – Suman Kalyan Pal  
SKS – Satinder Kumar Sharma  
SRC – Subhajit Roy Chowdhury  
ST – Satyajit Thakor  
Suman - Suman  
Surya - Surya Prakash  
TAG – Timothy A Gonsalves  
Talha – Mohammad Talha  
TPS - Tulika P Srivastava

Tripti - Tripti Singh  
TJ – Tushar Jain  
UKV - Uday Kala Venkata  
VJ – Varsha Jain  
VD – Varun Dutt  
VKN- Venkata Krishnan  
VSC – Vishal Singh Chauhan  
YD – Yvonne D  
Yoder - M. Yoder